15

13

16

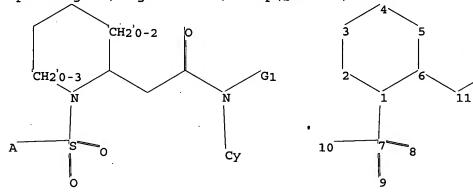
10/823,372

FILE 'HOME' ENTERED AT 10:48:46 ON 30 MAR 2006

=> file reg

=>

Uploading C:\Program Files\Stnexp\Queries\10823372.str



chain nodes :

7 8 9 11 12 13 14 15 16

ring nodes :

1 2 3 4 5 6

ring/chain nodes :

10

chain bonds :

1-7 6-11 7-8 7-9 7-10 11-12 12-13 12-15 13-14 13-16

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 1-7 2-3 3-4 4-5 5-6 7-8 7-9 7-10 12-13 12-15 13-14 13-16

exact bonds :

6-11 11-12

G1:H,Cy,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

G1 H, Cy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 11 full

L3 106 SEA SSS FUL L1

=> file ca

=> s 13

.4 3 L3

=> d ibib abs fhitstr 1-3

L4 ANSWER 1 OF 3 CA ACCESSION NUMBER: TITLE: COPYRIGHT 2006 ACS on STN 143:405810 CA Preparation of cyclic amine derivatives as bradykinin antagonists and their use in the treatment of pain inflammation inflammation
Groneberg, Robert D.; Zhan, James; Askew, Benny C.;
D'Amico, Derin C.; Hen, Nianhe; Potsch, Christopher
H.; Liu, Qingyien; Riahi, Babak; Zhu, Jiawang; Yang,
Kevin; Chen, Jian Jeffrey; Nomak, Rana
Amgen Inc., USA; Array Biopharma, Inc.
U.S. Pat. Appl. Publ., 107 pp.
CODEN: USXXCO INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE PAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND APPLICATION NO. US 2005234044 A1 US 2004-823372 US 2004-823372 PRIORITY APPLN. INFO.: OTHER SOURCE(S):

Title compds. I [wherein X=(CH2)q; Y=(CH2)t; q=0-3; t=0-2; when t=2, q is not 3; R=9-11-membered fused bicyclic carbocyclic or heterocyclic ring substituted with 1 to 3 basic moieties, and optionally

L4 ANSWER 2 OF 3 CA ACCESSION NUMBER: TITLE:

COPYRIGHT 2006 ACS on STN 141:379814 CA Preparation of cyclic amine derivatives as bradykinin antagonists and their use in the treatment of pain and

inflammation Groneberg, Robert D.; Zhan, James; Askew, Ben; D'Amico, Derin; Han, Nianh; Fotsch, Christopher H.; Liu, Qinglan; Riahi, Babak; Zhu, Jiawang; Yang, INVENTOR(S):

Kevin;

Chen, Jian J.; Nomak, Rana Amgen, Inc., USA; Array Biopharma, Inc. PCT Int. Appl., 261 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S):

DOCUMENT TYPE: English

LANGUAGE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

MIND

2004092164

M: AE, AG, AL, AM, AT,
CN, CO, CR, CU, CO,
GE, GH, GM, HR, HU,
LK, LR, LS, LT, LU,
NO, NZ, CM, PO, PH,
TJ, TM, TM, TR, TT,
RW: BM, GH, GM, KE, LS, I
BY, KG, KZ, MD, RU, CS, FT, FR, GB, GR, i
SK, TR, BF, BJ, CP, C
752084

(533742 DATE 20041028 PATENT NO. APPLICATION NO. KIND DATE O 2004-US11670 20040412 WO 2004092164 004-US11670
BG, BR. EM.
EC, EE, EG,
JP. KE, KG,
MK, MN. MM,
SC. SD, SE,
UZ, VC. VN,
SZ. TZ. UG,
BG, CH, CY,
MC. NL, PL,
GN, GQ, GN, 20040412 BY, BE, CA, CH, ES, PI, GB, GD, KP, KR, KZ, LC, KX, MZ, NA, NI, SG, SK, SL, SY, VU, 2A, 2M, 2W ZM, ZW, AM, AZ, CZ, DE, DK, EE, PT, RO, SE, SI, ML, MR, NE, SN, 20041028 WG 20 AU, AZ, BJ, BB, DE, DK, DM, DZ, ID, III, IN, IS, LV, HA, MD, MG, PL, PT, RO, RU, TZ, UA, UG, US, MM, MZ, SD, SL, TJ, TM, AT, BE, HU, IE, IT, LU, CG, CI, CM, GA, TD, TG
CA 2522084 AA 20041028 CA 2004-2522084 20040412
EP 1633743 A1 20060315 EP 2004-759563 20040412
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
PRIORITY APPLN. INFO.: US 2003-461673P P 20030410

WO 2004-US11670 20040412

OTHER SOURCE(S): MARPAT 141:379814

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

Title compds. I [wherein X = (CH2)q; Y = (CH2)t; q = 0-3; t = 0-2; when t = 2, q is not 3; R = 9-11-membered fused bicyclic carbocyclic or heterocyclic ring substituted with 1 to 3 basic moleties, and optionally substituted with 1 to 3 groups independently selected from NH2, OH, CN, oxo, alkoxy etc.; R2 = (un)substituted arylelkenyl, aryl, heterocyclyl selected from thienyl, imidszolyl, and benzofused heterocaryl; Ra = independently H, alkyl; and aryl optionally substituted with 1 to 3

independently selected from helo, OH, CN, sikylamino, sik(en/yn)yl, etc.; Rb = independently H, Oxo, OH, benzyloxy, C1-2-sikyl; Rc = independently H, alkyl; or RbCCRC = 6-membered hetero-daryl optionally substituted with

Page 3

ANSWER 1 OF 3 CA COPYRIGHT 2006 ACS on STN (Continued) substituted with 1 to 3 groups independently selected from NH2, OH, CN, OXO, alkoxy etc.; ; R2 = (un)substituted arylalkenyl, aryl, heterocyclyl selected from thienyl, imidazolyl, and benzo-fused heteroaryl; Ra = independently H, alkyl; and aryl optionally substituted with 1 to 3

na independently selected from halo, OH, CN, alkylamino, alk(en/yn)yl, etc.; Rb = independently H, oxo, OH, benzyloxy, C1-2-alkyl; Rc = independently H, alkyl; or RbCCRc = 6-membered hetero/aryl optionally substituted with

to 3 groups independently selected from halo, OH, CN, CF3, oxo, alkoxy, alkylamino, alkenyl, etc.; and their pharmaceutically acceptable salts) were prepd. as bradykinin antagonists. Seven biol. tests are given. Fexample, II=HCl was prepd. by reductive amination of

N-{(R)-7-formylchroman-4-yl)-2-(1-(3-trifluoromethylbenzenesulfonyl)piperi din-2-yllacetamide (prepn. given) with piperidine in N.N-dimethylacetamide in the presence of NaBH(OAc)3. Selected I bound to hB1 bradykinin receptor with ICSO values < 100 nm in an in vitro assay using calcium flux. Thus, I are useful for prophylaxis and treatment of diseases ar other maladies or conditions involving pain, inflammation mediated by Bradykinin.

other maladies or conditions involving pain, inflammation mediated Bradykinin.

783239-90-79, N-[(1R)-6-[[(1,1-Dimethylethyl)amino)methyl]-1,2,3,4-tetrahydro-1-naphthalenyl-2-[(35,4R)-4-hydroxy-1-[(3-(trifluoromethyl)phenyl]aulfonyl)-2-pyrrolidinyl]acatamide RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (bradykinin antagonist; preparation of cyclic amine derivs. as vkinin

ykinin
antagonists and their use in treatment of pain and inflammation)
783239-90-7 CA
2-Pyrrolidineacetamide, N-{{IR}-6-[[(1,1-dimethylethyl)amino]methyl]1,2,3,4-tetrahydro-1-naphthalenyl]-4-hydroxy-1-[(3(trifluoromethyl)phenyl]sulfonyl]-, (2S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSMER 2 OF 3 CA COPYRIGHT 2006 ACS on STN (Continued) to 3 groups independently selected from helo, OH, CN, CF3, oxo, alkoys, alkylamino, alkenyl, etc.; and their phermaceutically acceptable salts] were prepd. as bradykinin antagonists. Seven biol. tests are given. Por example, II=HCl was prepd. by reductive amination of aldehyde III (prepn. given) with piperidine in N,N-dimethylacetamide in the presence

NaBH(OAc)3. Selected I bound to hBl bradykinin receptor with ICSO values < 100 nm in an in vitro assay using calcium flux. Thus, I are useful for prophylaxis and trestment of diseases and other maladies or conditions involving pain, inflammation mediated by Bradykinin T83339-90-79, N-(1(R)-6-([(1,1-Dimethylethyl)amino]methyl]-1,2,3,4-tetrahydro-1-naphthalenyl]-2-(2(S,4R)-4-hydroxy-1-([3-(trifluoromethyl)phenyl]sulfonyl]-2-pyrrolidinyllacetamide RI: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or resgent); USES (Uses) (bradykinin antagonist; preparation of cyclic amine derivs. as kinin bradykinin

ykinin
antagonists and their use in treatment of pein and inflammation)
783239-90-7 CA
2-Pyrrolidineacetamide, N-{{1R}-6-{[(1,1-dimethylethyl)=mino]methyl}-1,2,3,4-tetrehydro-1-naphthalenyl]-4-hydroxy-1-{[3{trifluoromethyl)phenyl}sulfonyl]-, {2S,4R}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT

THERE ARE 6 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSMER 3 OF 3
ACCESSION NUMBER: 117:111126 CA
Synthesis and antibacterial activity of C-4
substituted monobactams
AUTHOR(S): Arnould, J. C.; Boutron, P.; Pasquet, M. J.
CORPORATE SOURCE: Cent. Rech., ICI-Pherma, Reima, 51064, Pr.
EUROpean Journal of Medicinal Chemistry (1992), 27(2) AUTHOR(S): CORPORATE SOURCE: SOURCE: 27(2),

131-40 CODEN: BJMCA5; ISSN: 0223-5234 Journal English

DOCUMENT TYPE: LANGUAGE: GI

Monobactams I [R = Me, CMe2CO2H; R1 = OBt, OH, NHCH2CO2H, NHCH2CO2Me, NHCH2CN, NHC6H3 (OH) 2-3,4,4-methylpiperaxino, NHCH2CH2R3; R2 = NH2,1-methyl-4-pyrtidiniumylamino, 2-thioxoximidaexolidin-1-y1 (O),3,4-(HO) 2C6H3CONH] were prepared from 6-aminopenicillanic acid. I (R =

3,4-(HO)2C6H3CONH] were prepared from 6-aminopenicillanic acid. I (R = Me, R1 = OH, NHCH2CO2H, NHCH2CH2Q) showed good to moderate activity against Gram-neg, bacteria with the exception of Peeudomonas acruginosa. Introduction of a catechol moiety on the C(4) side chain only slightly improved the activity against P. acruginosa.

IT 14193-00-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological activity or effector, except adverse); BSU (Biological actudy, unclassified); SPN (Synthetic preparation); BIOL (Biological actudy, PREP (Preparation) (preparation and bactericidal activity of)
RN 14193-00-2 CA
CN Propanoic acid, 2-[[1-(2-amino-4-thiazolyl)-2-[[2-[2-[4],4-dihydroxyphenyl)amino]-2-oxoethyll-4-oxo-1-aulti-3-acetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl-, [2S-[2a,38(2)]]- (9CI) (CA)

Absolute stereochemistry.
Double bond geometry as shown.

=> file marpat

=> s l1 full L5

28 SEA SSS FUL L1

=> s 15/com L6 26 L5/COM

=> d ibib abs fqhit 1-26

L6 ANSWER 1 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 143:405810 MARPAT
TITLE: Preparation of cyclic amine derivatives as bradykinin
antagonists and their use in the treatment of pain

inflammation

inflammation
Groneberg, Robert D.; Zhan, James; Askew, Benny C.;
D'Amico, Derin C.; Han, Nianhe; Potech, Christopher
H.; Liu, Qingyian; Riahi, Babek; Zhu, Jiawang; Yang,
Kevin; Chen, Jian Jeffrey; Nomak, Rane
Amgen Inc. USA; Array Biopharma, Inc.
U.S. Pat. Appl. Publ., 107 pp.
CODEN: USXXCO
Patent INVENTOR (S) :

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: English

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2005234044
PRIORITY APPLN. INFO.: US 2004-823372 US 2004-823372 A1 20051020 20040413

Title compds. I {wherein X = (CH2)q; Y = (CH2)t, q = 0-3; t = 0-2; when t = 2, q is not 3; R = 9-11-membered fused bicyclic carbocyclic or heterocyclic ring substituted with 1 to 3 basic moieties, and optionally substituted with 1 to 3 groups independently selected from NH2, OH, CN, oxo, alkoxy etc.; ; R2 = (un)substituted arylalkenyl, aryl, heterocyclyl

ANSWER 1 OF 26 MARPAT COPYRIGHT 2006 ACS on STN = 816-821 817-818 (Continued)

G45 CH [817 TH G44 816

Patent location:

substitution is restricted and pharmaceutically acceptable derivatives also incorporates claims 15 and 32 Note:

ANSWER 1 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) selected from thienyl, imidazolyl, and benzo-fused heteroaryl; Ra = independently H, alkyl; and aryl optionally substituted with 1 to 3

independently selected from halo, OH, CN, alkylamino, alk(en/yn)yl, etc.;
Rb = independently H, oxo, OH, bensyloxy, C1-2-alkyl; Rc = independently
H, alkyl; or RbCCRc = 6-membered hetero/aryl optionally substituted with

to 3 groups independently selected from halo, OH, CN, CP3, oxo, alkoxy, alkylamino, alkenyl, etc.; and their pharmaceutically acceptable selts) were prepd. as bradykinin antagonists. Seven biol. tests are given. Per example, II-HCl was prepd. by reductive amination of

N-((R)-7-formylchroman-4-yl)-2-[1-(3-trifluoromethylbenzenesulfonyl)piperi din-2-yl]acetamide (prepn. given) with piperidine in N,N-dimethylacetamide in the presence of NaBH(OAc)3. Selected I bound to hBl bradykinin receptor with IC50 values < 100 nm in an in vitro assay using calcium flux. Thus, I are useful for prophylaxis and treatment of diseases and other maladies or conditions involving pain, inflammation mediated by Bradykinin. Bradykinin.

MSTR 1

G1 - 19

thienyl (opt. substd.)

= NH = 28-7 29-20 30-18

= (0-3) CH2 = (0-2) CH2

L6 ANSWER 2 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 143:405805 MARPAT
TITLE: Preparation of substituted 1-sulfonylpiperidines as y-secretase inhibitors
INVENTOR(S): Asberom, Theodros; Clader, John W.; Josien, Hubert

Mark

Pissarnitski, Dmitri A.; Zhao, Zhiqiang; McBriar,

Schering Corporation, USA

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 134 pp. CODEN: PIXXD2

English

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO

NO 2005097768 A2 20051020 MO 2005-US1145
NO 2005097768 A3 20051215
NO 2005097768 A3 20050105
NO 2005097768 A3 20050105
NO 2005097768 A3 20050105
NO 2005097768
NO 2005097768 A3 20050105
NO 2005097768
NO 2005097768 A3 20050105
NO 2005097768
NO 200509777
NO 200509777
NO 200509777
NO 20050977
NO 20050977
NO 20050977
NO 20050977
NO 20050977 PATENT NO. KIND DATE APPLICATION NO. DATE WO 2005-US11456 20050404 EW, EG, KG, MN, SD, UZ, BY, ES, KM, MW, SE, VC, BZ, FI, KP, MX, SG, VN, CA, GB, KR, MZ, SK, YU, TZ, CH, LU, GA, UG, CY, MC, GN, ZM, CZ, NL, GQ, ZW, DE, PL, GW,

MR, NE, SI US 2006004004 PRIORITY APPLN. INFO.: US 2005-98745 20050404 US 2004-559529P 20040405

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compda. I [R1 = (un)substituted (hetero)aryl; R2 = carboxamido, alkylene-carboxamido, etc.; R3 = H, alkyl, alkoxy, OH, amino, acyl, etc.; R4-5 = H, alkyl; R6 = (un)substituted (hetero)aryl, (cyclo)alkyl, etc.;

m, n, p = 0-3 with some provisions] are prepared For instance, intermediate II is prepared in 4 steps from 6-bromopicolinic acid, 3.5-difluorophenylboronic acid and 4-chlorobenzenesulfonyl chloride. Example compound III is

ired from II in 12 addnl. steps using 2-(piperazin-1-yl)ethanol. III has y-secretase activity with an ICSO = 0.0028 µM. I are useful for the treatment of various neurodegenerative diseases and may be used to treat, e.g., Alzheimer's Disease.

MSTR 1

Page 7

ANSWER 2 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) 1993 - 369 p-C6H4C1 G2 - 200-5 201-199 200 2012 G6 - 73 = alkylene <containing 1-20 C> (opt. substd. by 1 or more OH) = C(O) = 44 HN-G16 HC-G17 G29 = (0-1) CH2 Patent location: Note: claim 1
or pharmaceutically acceptable salts, solvates, or
esters ANSWER 3 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) H, alkyl; or RbCCRc = 6-membered hetero/aryl optionally substituted with to 3 groups independently selected from halo, OH, CN, CF3, oxo, alkoxy, alkylamino, alkenyl, etc.; and their pharmaceutically acceptable salts] were prepd. as bradykinin antagonists. Seven biol. tests are given. For example, II-HCl was prepd. by reductive amination of aldehyde III (prepn. given) with piperidine in N,N-dimethylacetamide in the presence of NaBH(OAc)3. Selected I bound to hBl bradykinin receptor with IC50 values < 100 nm in an in-vitro assay using calcium flux. Thus, I are useful for prophylaxis and treatment of diseases and other maladies or conditions involving pain, inflammation mediated by Bradykinin. MSTR 1 CH2-C(0)-Q10-G1 - 19 - thienyl (opt. substd.) - NH - 28-7 29-20 30-18 = (0-3) CH2 = (0-2) CH2 = 816-821 817-818 G45 CH B17 G44 816 Patent location: Note: Note: substitution is restricted and pharmaceutically acceptable derivatives also incorporates claims 15 and 32

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L6 ANSMER 3 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 141:379814 MARPAT
TITLE: Preparation of cyclic amine derivatives as bradykinin
antagonists and their use in the treatment of pain
  and
                                                                             inflammation
Groneberg, Robert D.; Zhan, James; Askew, Ben;
D'Amico, Derin; Han, Nianh; Potsch, Christopher H.;
Liu, Qinglan; Riahi, Babak; Zhu, Jiawang; Yang,
  INVENTOR (5):
                                                                            Chen, Jian J.; Nomak, Rana
Amgen, Inc., USA; Array Biopharma, Inc.
PCT Int. Appl., 261 pp.
CODEN: PIXXD2
Patent
  Kevin:
  PATENT ASSIGNEE(S):
SOURCE:
  DOCUMENT TYPE:
                                                                              English
 PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                    KIND DATE
                PATENT NO.
                                                                                                                                    APPLICATION NO. DATE
                                                                     A1
WO 2004092164
M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BM, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LB, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, AM, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZM, RM, BM, GM, GM, KB, MD, MM, KB, MZ, MM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GM, HL, KR, NE, SN, TD, TG
CA 2522084
AA 20041028
EP 1633743
A1 20060115
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NI, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
PRIORITY APPLN. INFO::

WO 2004-US11670
20040412
GI
                                                                                     20041028
                                                                                                                                     WO 2004-US11670
                                                                                                                                                                                      20040412
                WO 2004092164
  * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
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AB Title compds. I [wherein X = (CH2)q; Y = (CH2)t; q = 0-3; t = 0-2; when t = 2, q is not 3; R = 9-11-membered fused bicyclic carbocyclic or heterocyclic ring substituted with 1 to 3 basic moieties, and optionally substituted with 1 to 3 groups independently selected from NH2, OH, CN, oxo, alkoxy etc.; R2 = (un)substituted arytalkenyl, aryl, heterocyclyl selected from thienyl, imidazolyl, and benzofused heteroaryl; Ra = independently H, alkyl; and aryl optionally substituted with 1 to 3 groups

groups
independently selected from halo, OH, CN, alkylamino, alk(en/yn)yl, atc.; Rb = independently H, oxo, OH, benzyloxy, C1-2-alkyl; Rc = independently

L6 ANSMER 3 OF 26 MARPAT COPYRIGHT 2006 ACS ON STN (Continued)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

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AT COPYRIGHT 2006 ACS on STN

139:358757 MARPAT

Use of compounds having CCR entegonism

Tsuchimori, Noboru; Iizawa, Yuji; Shiraishi, Mitsuru;
Sughara, Yoshihiro

PATENT ASSIGNEE(S): Per int. Appl., 229 pp.

CODEN: PIXXD2

POCUMENT TYPE: Patent
LANGUAGE: Per int. Appl., 229 pp.

AUGUAGE: Per int. Appl., 229 pp.

PATENT INFORMATION:

PATENT NO
                                                                                                                                                                                                                                                                                                                                                             ANSWER 4 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
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  KIND DATE
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                                                                                                                                                                                                                                                                                                                                                                          - carbon chain <containing 1 or more C, saturated>
(opt. substd. by OH)
- carbocycle (opt. substd.) / Ph (opt. substd.)
107
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                 -g7--g1--g3
                                                                                                                                                                                                                                                                                                                                                L6 ANSWER 5 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 139:323539 MARPAT
TITLE: Preparation of nitrogenous heterocyclic compounds as sodium channel blockers
INVENTOR(S): OZAKI, Fumiliro; Ono, Mutsuko; Kawano, Koki;
                  ANSWER 4 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
                                                                                                                                                                                                                               (Continued)
       5g15=0
                                                                                                                                                                                                                                                                                                                                                 Norimine.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Yoshihiko; Onogi, Tetsuhiro; Yoshinaga, Takashi;
Kobayashi, Kiyoaki; Suzuki, Hiroyuki; Minami, Hiroe;
Sawada, Kohei
Eisai Co., Ltd., Japan
PCT Int. Appl., 401 pp.
CODEN: PIXXD2
Patent
     G30
                              - 21
                                                                                                                                                                                                                                                                                                                                                 PATENT ASSIGNEE (S) :
SOURCE:
                                                                                                                                                                                                                                                                                                                                                 DOCUMENT TYPE:
LANGUAGE:
                                                                                                                                                                                                                                                                                                                                                                                                                                            Japanese
                                                                                                                                                                                                                                                                                                                                                 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
      Patent location:
Note:
                                                                                                                                                                                                                                                                                                                                                                                                                                A1 20031
                                                                                                                                                                                                                                                                                                                                                                   PATENT NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NO. DATE
                                                                                                                                                                                                                                                                                                                                                                WO 2003084948 Al 20031016 MO 2003-JP3064 20030314
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, MD, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, KS, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZM
RM: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AM, AZ, BY, KG, KZ, KD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NIL, PT, RO, SE, SI, SK, TR, BP, BJ, CP, CG, CI, CM, GA, GN, GQ, GM, ML, MR, NE, SN, TD, TG
US 2004167242 Al 2004626 US 2003-388185 20030314
US 2003127361 Al 2004120 EP 2003-708607 20030314
AU 2003213361 Al 2004120 EP 2003-708607 20030314
AU 2003213361 Al 2004120 EP 2003-708607 20030314
CR RI AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IS, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
CN 1630650 A 2005242 CN 2003-388185 20030314
US 2005245527 Al 2005103 US 2005-7018
US 2005245527 Al 2005103 US 2005-7018
US 2005345527 Al 2005103 US 2005-719099 20050701
US 2003-388185 20030314
The title compds. such as (piperidinomethyl) pyrszine and colored incomptly) pyrszine and colored incomptly) pyrszine deficience thyl) pyrszine deficience th
                                                                                                                                                                                                                                                                                                                                                                                                                                                     20031016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO 2003-JP3064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20030314
                                                                                                                                                                                                                                                                                                                                                                   WO 2003084948
      REFERENCE COUNT:
                                                                                                                       THERE ARE 55 CITED REFERENCES AVAILABLE FOR
                                                                                                                       RECORD. ALL CITATIONS AVAILABLE IN THE RE
      PORMAT
                                                                                                                                                                                                                                                                                                                                               IE, SI, L
CN 1630650
US 2005245527
PRIORITY APPLN. INFO.:
                                                                                                                                                                                                                                                                                                                                                                   The title compds. such as (piperidinomethyl)pyrazine and (piperidinomethyl)pyraindine and (piperidinomethyl)pyrimidine and (piperidinomethyl)pyridine derivs. represented by the general formula A1-X1-X2-21-X3-X4-X3, salts thereof,
                                                                                                                                                                                                                                                                                                                                                                  hydrates of either: (wherein X1, X2 = a single bond, each (un)substituted C1-6 alkylene, C3-8 cycloalkylene, monocyclic 4- to 8-membered nonarom. heterocyclic ring, C2-6 alkenylene, C2-6 alkynylene, C0NH, NHCO, 502 NH, NH 502, or, NH, 0, C0, S, S0, S02; X3, X4 = groups listed in X1 and X2, (un)substituted C(:NOH) or 5- to 10-membered aromatic heterocyclic ring;
```

(un)substituted mono or bicyclic 4- to 12-membered nonarom. heterocyclic ring containing at least one N atom; A2 = each (un)substituted Ph, 1- or 2-naphthl, 5- to 10-membered aromatic heterocyclic ring, 9- to benzene-fused ring, or 9- to 11-membered aromatic heterocyclic ring-fused ring; A1 = C(:Q1), 5- to 7-membered heterocyclic ring containing N atom, Q3 (wherein Q1 = O, S, optionally N-C1-6 alkyl-substituted NH; R21 = H,

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L6 ANSMER 5 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)
C1-6 alkyl; m = 0, 1)] are prepd. These compds. are useful as analgesics and for prevention and treatment of (1) neuralgia including diabetic neuralgia. HIV neuralgia, post-herpes zoster neuralgia, trigeminal neuralgia. HIV neuralgia, post-pinal cord injury neuralgia, thalamus neuralgia, and post-stroke neuralgia, post-spinal cord injury neuralgia, thalamus neuralgia, and post-stroke neuralgia, post-spinal cord diaporder, inflammation, arthralgia, post-spinal cord injury-related nerve disorder, head traums nerve disorder, epinal cord injury-related nerve demage, Parkinson's disease, multiple sclerosis, epileps, insomnia, premature ejaculation, or manic-depressive psychosis. In biol. assays, 3-[4-[(2-fluorophenyl)ethynyl]piperidino]methyl-1H-pyraxin-2-one inhibited ectopic firing with ID50 of 50.5 mg/kg in rats and in vitro showed sodium channel-blocking activity in cultured rat hippocampus with IC50 of 0.4 µM.

NSTR 18

Q30-Q1-Q20
G1 = 4-1 5-3

Q2 = 6-1 7-5

Q4 = 502
G1 = 534-4 535-3

G20 = Ph (opt. substd.)
G27 = 538-4 539-535
```

L6 ANSWER 6 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 136:232201 MARPAT
TITLE: Preparetion of cyclic amine derivatives as CCR3
antagoniats
INVENTOR(S): Morinia, Koichiro; Inami, Hiroshi; Kubota, Hirokazu;
Yokoyama, Kazuhiro; Morokata, Tatauaki; Takeuchi,
Makoto; Takahashi, Toshiya; Kaneko, Maesyuki; Imaoka,
Takayuki; Torrii, Yuichi; Iura, Yosuke
Yamanouchi Pharmaceutical Co., Ltd., Japan; Toray
Industries, Inc.
POCUMENT TYPE: PIXAD2
Patent Inc. Appl., 92 pp.
CODE: PIXAD2
Patent Information:

PATENT NO.	KIND D	ATE	APPLICATION NO.	DATE
NO 200201833	5 A1 2	0020307	WO 2001-JP7321	20010827
W: AE,	AG, AL, AM,	AT, AU, AZ,	BA, BB, BG, BR, B	r, BZ, CA, CH, CN,
co.	CR, CU, CZ,	DE, DK, DM,	DZ, EC, EE, ES, F.	I, GB, GD, GE, GH,
GM,	HR, HU, ID,	IL, IN, IS,	JP, KE, KG, KP, K	R, KZ, LC, LK, LR,
LS.	LT, LU, LV,	MA, MD, MG,	MK, MN, MW, MX, MS	Z, NO, NZ, PH, PL,
PT,	RO, RU, SD,	SE, SG, SI,	SK, SL, TJ, TM, T	R, TT, TZ, UA, UG,
us,	UZ, VN, YU,	ZA, ZW, AM,	AZ, BY, KG, KZ, MI	O, RU, TJ, TM
RW: GH,	GM, KE, LS,	MW, MZ, SD,	SL, SZ, TZ, UG, ZI	A, AT, BE, CH, CY,
DE,	DK, ES, FI,	PR, GB, GR,	IE, IT, LU, MC, N	L, PT, SE, TR, BF,
BJ,	CF, CG, CI,	CM, GA, GN,	GQ, GW, ML, MR, NI	E, SN, TD, TG
AU 200108018	7 A5 2	0020313	AU 2001-80187	20010827
PRIORITY APPLN. I	NFO.:		JP 2000-257451	20000828
			WO 2001-JP7321	20010827
GI				

A Y T T D

01 - V3

AB The title compde. I [ring A = (un) substituted heterocyclic ring, etc.; X bond, O. CO, etc.; ring B = Ql, etc.; ring V3 = hydrocerbon ring, etc.; M = CH, N; Y = CO, etc.; R21, R22 = H, halo, etc.; T1 = (CN2)n; n = O - 2; ring D = (un) substituted aryl, etc.] are prepared In an in vitro test

Page 9

L6 ANSWER 5 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

H2C ST (O)

G28 - NH (opt. substd.)

G34

107

Patent location:
Note:
Note

FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

ANSWER 6 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)
CCR3 antagonism) using cells, compds. of this invention showed IC50 values of 0.001 μM to 0.45 μM. MSTR 1A 91-915-918-926-CH2-030 G1 g3—g2 = Ph (opt. substd. by 1 or more G31)
= 59-8 61-2 -c (o)-g7 = alkylene <containing 1-6 C> (opt. substd.)
= 194-1 195-3 Ģ38 (194)) 195 - 138-2 139-4 G18 Patent location: claim 1 or pharmacologically acceptable salts substitution is restricted Note: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REPERENCE COUNT:

PORMAT

compounds as inhibitors of endothelin-converting enzyme Aebi, Johannes; Blum, Denise; Bur, Daniel; Chucholowski, Alexander; Dehmlow, Henrietta; Kitas, Eric Argirios; Loeffler, Bernd Michael; Obst, Ulrike; Wallbaum, Sabine P. Hoffmann-La Roche A.-G., Switz. PCT Int. Appl., 160 pp. CODEN: PIXXD2 Patent English 1 6 ANSWER 7 OF 26 MARPAT COPYRIGHT 2006 ACS on STN CCSSSION NUMBER: 116:134667 MARPAT ITLE: Preparation of mercaptopyrrolidinecarboxamides INVENTOR (S) : PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE

MO 2002006322 A1 2020144 M0 2001-8P7950 20010710

M: AE, AG, AL, AM, AT, AL, AL, AB, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, LS, LT, LU, LV, MA, ND, MG, MK, MM, MM, MX, MZ, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW

RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CP, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

CA 2414311 AA 20020124 A1 20030423 EP 2001-2414311 20010710

R: AT, BE, CK, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

BR 2001012580 A 20030617 BR 2001-215280 20010710

VS 200204943 A1 20020524 US 2001-907135 20010710

PRIORITY APPLN. INFO::

GI KIND DATE PATENT NO. APPLICATION NO. DATE ZA 2003-167 EP 2000-114947 WO 2001-EP7950 20030107 20000719 20010710

ANSWER 7 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)
RENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR REPERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE

PORMAT

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ANSWER 7 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
                                                                                                                                                                      (Continued)
              Title compds. [I; R1 = H, alkylcarbonyl, arylcarbonyl; R2 = alkyl, alkylcycloalkyl, cycloalkyl, haloalkyl, carboxyalkyl, aryl, alkynyl, arylcxyalkyl, heterocyclyl, etc.; A = COR3, CK(OHR4, CONTRSE; R3, R4 = alkyl, aryl, arylalkynyl, aralkyl, arylalkenyl; R5 = H, alkyl,
cycloalkyl. cycloalkylalkyl, carboxyalkyl, aralkyl; R6 = alkyl, alkylcarbonylalkyl, cyanoalkyl, hydroxyalkyl, aminocarbonylalkyl, aryl, etc.; m = 0-2; X = S02, CO, CO3, SO2NH, CONR13; R13 = H, alkyl, aryl, carboxyalkyl), and dimers thereof, were prepared Thus, (25,4R) - [[4-(4-methoxybensylsulfanyl)-1-(naphthalene-2-usifonyl)pyrrolidine-2-carbonyl|methylamino|acetic acid (preparation given) in CH2Cl2 were treated with NMM, HOBT in CH2Cl2, EDCI in
EDCI
               CH2Cl2, and o-toluidine in CH2Cl2; the solution was shaken overnight to
              a residue which was treated with Et35iH in CF3CO3H at 80° for 1 h to give (25,4R)-4-mercapto-1-(naphthalene-2-sulfonyl)pyrrolidine-2-crboxylic acid methyl(o-tolylcarbamoylmethyl)amide. I inhibited endothelin converting enzyme with ICSO = 5-1000 nM.
                   - alkyl <containing up to 7 C>
- cyclopropyl
- (0-2) CH2
- 27
 2<sup>C</sup> (0)-023
 G23
 G30 = SO2
Patent location:
Note:
                                                                               claim 1 and dimeric forms, and pharmaceutically acceptable esters, and salts
```

L6 ANSWER 8 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 135:226989 MARPAT
TITLE: Synthesis of thiszolyl-phenyl-amide derivatives used
to inhibit herpes virus replication and treat herpes to inhibit herpes virus replication and treat nerpes infection Crute, J. James; Faucher, Anne-marie; Grygon, Christine; Hargrave, Karl D.; Simoneau, Bruno; Thavonekham, Bounkham Boehringer Ingelheim Ltd., Can.; Boehringer Ingelheim Pharma KQ INVENTOR(S): PATENT ASSIGNEE(S): U.S., 61 pp., Cont.-in-part of U.S. Ser. No. 759,201. SOURCE: DOCUMENT TYPE: Patent English LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE US 1999-364446
CN 1996-759201
2A 1996-759201
US 1996-759201
US 1999-456857
US 2000-685686
US 1995-9433P
US 1996-72209P
US 1996-759201
US 1999-456857 US 6288091 CN 1207094 US 6057451 ZA 9610850 US 6348477 US 6458959 PRIORITY APPLN. INFO.: 19990730 B1 20010911 19990203 20000502 19970630 19961204 19991208 20001010 20021001 19951229 19960802

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [R = H, alkyl(amino), amino, alkanoylamino, etc.; Z = NR2-C(0)-0-CH(R3)-NR4R5; R2 = H, alkyl; Q = bond, CH2; R3 = H, ((substituted)phenyl)alkyl; R4 = H, ((substituted)phenyl)alkyl; R5 = (Het)-((r)-(alkyl)-(C0); Het = pyridinyl; Y = O, S) were prepared Over 200 synthetic examples were disclosed. For instance, Boc-glycine was N-benzylated (NaH, PhCHABF, THF, reflux, 16 h) and the product converted to II (i-BuOCOCI, ELNH, DCM, 4'-aminoacetophenone, room temperature, 16 h.). Amide II was converted to example compound III (n P = BCC, E = CM2Dh) [12] **Electric Namics of Converted to Example Compound III (n P = BCC, E = CM2Dh) [12] **Electric Namics One Converted to Example Compound III (n P = BCC, E = CM2Dh) [12] **Electric Namics One Converted to Example Compound III (n P = BCC, E = CM2Dh) [13] **Electric Namics One Converted to Example Compound III (n P = BCC, E = CM2Dh) [13] **Electric Namics One Converted to Example Compound III (n P = BCC, E = CM2Dh) [13] **Electric Namics One Converted to Example Compound III (n P = CM2Dh) [13] **Electric Namics One Converted to Example Compound III (n P = CM2Dh) [13] **Electric Namics One Converted to Example Compound III (n P = CM2Dh) [13] **Electric Namics One CM2Dh) [13] **Electric Namics O

P = Boc, E = CH2Ph) (I2, thioures, IPA, reflux, 2.5 h.). III (n = 0, P = CH2Ph, B = C:0Ph) had ICSO = 0.072 μ M for MSV-1 and ECSO = 0.007 μ M for human cytomegalovirus. I are used for treating herpes infection by inhibiting the herpes helicase-primase enzyme complex.

KSTR 1

GΙ

Page 10

ANSWER 8 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

G5

25 26 36 36

- NH - 57-25 62-36

025

G22 - Ph Patent location: Note: Note:

claim 1
also incorporates broader disclosure
or therapeutically acceptable acid addition salts
substitution is restricted THERE ARE 20 CITED REFERENCES AVAILABLE FOR

REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 9 OF 26 MARPAT COPYRIGHT 2006 ACS on STN

AB The title compds. RIS(0)nN(R2)XYZ [R1 represents lower alkyl, cycloalkyl, etc.; R2 represents hydrogen, lower alkyl, etc.; n is 1 or 2; X represents lower alkylene, lower alkenylene, arylene, cycloalkylene, etc.; Y represents CONR7, CSNR7, NR7CO, NR7CS, etc. (wherein R7 represents hydrogen or lower alkyl); and Z represents lower alkyl, an optionally substituted hydrocarbon ring, an optionally substituted heterocycle, etc.]

are prepared In an in vitro test for affinity for the neuropeptide Y5 receptors, the title compound I showed the IC50 value of 0.4 nM. Formulations are given.

MSTR 1

G1---G7

- 23 / 39

2317-G10 3G16-G5-G2

O Ph (opt. substd.) 3

62--G5-

- 54-5 44-40

Page 11

L6 ANSMER 9 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 135:19547 MARPAT
TITLE: Preparation of sulfonamides and sulfinamides as NPY

antagonists Kawanishi, Yasuyuki; Takenaka, Hideyuki; Hanasaki, Kohji; Okada, Tetsuo Shionogi & Co., Ltd., Japan PCT Int. Appl., 273 pp. CODEN: PIXXD2 Patent INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION: Japanese

PATENT NO. KINU UM-16

MO 2001037826 A1 2001051 MO 2000-7P8197 20001121

M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CC, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KE, LC, LK, LR, LS, LT, LU, LV, MA, MD, MM, MK, MN, MM, MX, MZ, NO, NZ, PI, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM

RNI GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 3389561 AA 20010511

AU 2001014166 A5 20010514

BR 2000015843 A 2020827 BR 2000-15843 20001121

BR 2000015843 A1 20021016 EP 2000-976387 20001121

CA GRE IT, LI, LU, NL, SE, MC, PT, PATENT NO. KIND DATE APPLICATION NO. DATE R: 20001121 20001121 20020425 20020501 20020524 20031230 20031230 19991126 19991214 20001121 20020501 IE, 61 NZ 519070 RU 2264810 ZA 2002003306 US 6699891 NO 2002002481 US 2004176462 US 2004180964 PRIORITY APPLN. INFO.:

ANSWER 9 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

GΙ

G17 = bond
G18 = alkylene <containing 1-6 C>
Patent location: claim 1

Acceptable and prodrugs and pharmacologically acceptable

REFERENCE COUNT: THERE ARE 14 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

GI

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L6 ANSMER 10 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 133:207919 MARPAT
TITLE: Preparation of 4-amino-quinazoline and quinoline
derivatives having an inhibitory effect on signal
transduction mediated by tyrosine kinases useful for
treating tumoral diseases, lung and respiratory tract
diseases
                                                                  diseases
Himmelsbach, Prank; Langkopf, Elke; Jung, Birgit;
Metz, Thomas; Solca, Plavio; Blech, Stefan
Boehringer Ingelheim Pharma K.-G., Germany
PCT Int. Appl., 232 pp.
CODEN: PIXXD2
Patent
English
2
  INVENTOR (5) :
  PATENT ASSIGNEE(S):
SOURCE:
  DOCUMENT TYPE:
   FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
PATENT NO.
                                                           KIND DATE
                                                                                                                  APPLICATION NO. DATE
                                                                                                                                                                                    CR, CU,
ID, IL,
LV, MA,
SG, SI,
ZW
CY, DE,
BJ, CF,
                                                                                                                                                                                    MC, PT
                                                                                                                EE 2001-449 2000024
BG 2001-105765 20010801
RR 2001-617 20010823
NO 2001-4114 20010824
US 2002-914323 20020206
DE 1999-199908567 19990227
DE 1999-199913266 19990621
US 1999-19993897 19990821
US 1999-19954816 1999113
WO 2000-EP1496 20000224
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ANSWER 10 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
                                                                                       (Continued)
145
         = NH

= C(O)

= carbon chain <containing 2 or more C,

1-2 double bonds, 0-1 triple bonds (opt. substd. by P)

= 147
G10
G12
G13
G10-G12-G13-G15
         = 152
G15
,650-930
G20
          - 248
G29
          - alkylsulfonyl <containing 1-4 C>
Patent location:
                                         and tautomers and salts
also incorporates claim 22
substitution is restricted
 Note:
Stereochemistry:
                                         and stereoisomers
REFERENCE COUNT:
                                             THERE ARE 3 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
PORMAT
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ANSWER 10 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

AB Title compds. [I; R1 = H, C1-C4-alkyl; R2 = (un)substituted Ph, benzyl, 1-phenylethyl; R3, R4 independently = H, P, C1, CH3O, CH3OCH2, (CH3)2NCH2,

PARTY (CH3CH2) NCH2, pyrrolidino, piperidino, morpholino; X = C(CN), N; A = O, NH, (C1-C4)-alkylN; B = CO, SO2; C = 1,3-allenylene, 1,1-vinylene, 1,2-vinylene, 1,3-butadien-1,4-ylene, with CH3, C73 substitution; D = alkylene, CO-alkylene, SO2-alkylene, CO, SO2; E = HOCO(CH2)NNS, (HO)2P(:O) (CH2)NNS, n = 1-6; RS = H, alkyl1, tautomers, stereoisomers, and physiol. acceptable salts are prepared and having valuable pharmacol. properties, particularly an inhibiting effect on signal transduction mediated by tyrosine kinases. Title compds. are useful for treating tumoral diseases, diseases of the lungs and respiratory tract. Thus, the title compound II was prepared and tested by Cell Titer 96TM Aqueous Nonradioactive Cell Proliferation Assay.

```
L6 ANSMER 11 OF 26
ACCESSION NUMBER:
TITLE:
Preparation of monocyclic compounds having NK-2
antagonist action
INVENTOR(S):
Altamura, Maria; Criscuoli, Marco; Guidi, Antonio;
Perrotte, Enzo; Maggi, Carlo Alberto
Menarini Ricerche S.p.A., Italy
PCT Int. Appl., 50 pp.
COEN; PIXXD2
DOCUMENT TYPE.

MARPAT COPYRIGHT 2006 ACS on STN

132:166521 MARPAT
Persenting NACO; Guidi, Antonio;
Perrotte, Enzo; Maggi, Carlo Alberto
COEN; PIXXD2

Patent
 DOCUMENT TYPE:
                                                                                Patent
  LANGUAGE:
                                                                                English
 LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                PATENT NO.
                                                                      KIND DATE
                                                                                                                                        APPLICATION NO. DATE
```

```
PATENT NO. KIND DATE

MO 2000008046 A1 20000217

M: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, PI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MM, MX, NO, NZ, PL, PT, RC, RU, SD, SE, SG, IS, KS, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TI, TM

RN: GH, GM, KE, LS, MM, SD, SL, SZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TI, TM, GR, II, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CT, CM, GA, GN, GM, ML, MR, NE, SN, TD, TG

IT 1304888

B1 20010405

TM 491857

B 20020621

TM 491857

B 20020621

TM 491857

A1 20000218

A2 20010521

EP 10102769

R: AT, BE, CH, CE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, PI, RO

EP 1297826

A1 20030402

R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, PRICORITY APPIN. INFO::

WO 1999-EP5459 19990730

GI
        GI
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x4-CHR1-x1-CHR2-x2
                   (CH2)m
H2C-CHR4-X3-(CH2)n-CHR3
```

Cyclic peptides I [X1, X2, X3, X4 = CONR, NRCO, CH2NR, NRCH2 (R = H, alkyl, benzyl); m, n = 0, 1, 2; R1, R2 = aryl, arylmethyl, 2-arylethyl; k3
aryl, arylmethyl, 2-arylethyl, R4 = NRSR9 (R8 = H, alkyl, R9 = methanesulfonyl, tosyl, tetrahydropyranyl, tetrahydrothiopyranyl or S-oxides, piperidyl or N-substituted derivs., morpholino-, furyl- or cyanoalkyl, etc.)] or their pharmaceutically acceptable selts were prepared

L6 ANSMER 11 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) as NK-2 antagonists. Thus, cyclo{Suc[1-{4-tetrahydropyranyl}amino}-Trp-Phe-{(R)-NHCH(CH2Ph)CH2Nh]} (Suc = succinyl group) was prepd. by a multistep procedure starting from 1-Trp-Phe-OH and assayed as antagonist on the NK-2 receptor of tachykinins (binding const. pKi = 8.5).

METR 1A

4313-G15

G(0)-G21-G22

= alkylene <containing 1-3 C, unbranched> = 129

G26 = SO2NH2 Derivative: Patent location: Note: Stereochemistry:

and pharmaceutically acceptable salts claim 1 claim 1 additional subsitution also claimed and enantiomers or diastereoisomers

L6 ANSMER 12 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 131:116225 MARPAT
TITLE: Preparation of isoindole derivatives as endothelin receptor antegonists
INVENTOR(S): Eliott, John Duncan; Franz, Robert Gene; Lago, M. Amparo; Gao, Aiming
PATENT ASSIGNEE(S): Switchkline Beecham Corp., USA
SUURCE: U.S., 9 pp.
CODEN: USXXXM
DOCUMENT TYPE: LANGUAGE: . Patent
LANGUAGE: . Beglish
PANILY ACC. NUM. COUNT: 1

LANGUAGE: .
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 5929106
PRIORITY APPLN. INFO.: US 1997-958781 US 1997-958781 A 19990727 19971027

AB Dihydroisoindole compds. of formula [I; R1 = X (CH2)nR8; R2 = H, Ar, C1-4 alkyl; P1 = tetrazolyl, SO2R7R11, (CH2)5CO2R7; Z1, Z2 = H, C1-8 alkyl, C2-8 alkeynyl, C3-8 alkynyl, C3-8 alkynyl, C3-8 alkynyl, C1-8 alkyl, C1-8 alkyl-(S)q, (un) substituted NH2, Br, P, iodo, NNCHO, C1-4 alkylcarbonylamino, Ph, CH2Ph, etc.; or Z1 and Z2 together may be O-A-O on contiguous carbons; wherein A = CO, (un) substituted CH2; Z3 = Z1, X-R9-Y; X = (CH2)n, O, (un) substituted NH; wherein Y = Me, X(CH2)nAr; wherein R7 = H, C1-10 alkyl, C2-10 alkenyl, C2-8 alkynyl, (CH2)nAr; R8 = R11, CO2R7, CO2C(R11)202CR7, PO3(R7)2, SO2NR711, NONR5O2R11, CONR5O2R11, SO2R7, SO2R7, cyano, etc.; R9 = (CH2)n, C1-10 alkylene, C2-10 alkenylene, phenylenyl, CO, C1-5 alkyl-X; R11 = H, Ar, C1-8 alkylene, C2-8 alkynylene, etc.; Ar = (un) substituted Ph, naphthyl, indolyl, pyridyl, thianglyl, oxazolyl, imidazolyl, imidazolidinyl, thiazolyl, pyrazolyl, triazolyl, tetrazolyl, imidazolyl, imidazolidinyl, thiazolidinyl, piperazinyl, pyroylyl, pyrimidyl, etc.; wherein n = O-6; q = O-2) are prepared The compds. are applied in the treatment of hypertension and cardiovascular and renal diseases. Thus, Me (1R5,3R5):-1-((2-hydroxy-4-methoxyl)phenyl)-1-(3,4-methylenedioxyphenyl)-5-prop-1-yloxy-(1H,3H-dihydroisoindol-2-yllacetate in dry DMF was added potessium carbonate under argon, stirred at room temperature for 20 min, then treated with Ethromoscetate, and stirred for 24 h, followed by saponification and scidification, to give the title compound (II). Title compds. inhibited (125 I]8T-1 binding to membranes from rat cerebellum or kidney cortex or CNO cell membranes with IC50 of 0.01 nm to 50 µM and ET-1-induced vascular contraction using rat aorta with dissociation constant of 0.1 nM to 50 PAGE

Page 13

L6 ANSWER 11 OF 26 MARPAT COPYRIGHT 2006 ACS on STN

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

PORMAT

ANSWER 12 OF 26 MARPAT COPYRIGHT 2006 ACS on STN competitive antagonists.

- 10 / 78 / 86

ag23-c (0)-G24 78227021

Ph (opt. substd.)G11G11103

Ģ14

103

claim 1
also incorporates broader disclosure
additional ring formation also claimed
optional presence of a double bond also claimed

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

```
L6 ANSMER 13 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 131:31939 MARPAT
TITLE: Preparation of N-imidazolylethyl
tetrahydroisoquinolinecarboxamides and related
compounds as inhibitors of farnesyl-protein
                                                              compounds as inhibitors of Tarnesyl-prote
transferase.
Ciccarone, Terrence M.; Desolms, S. Jane
Merck & Co., Inc., USA
PCT Int. Appl., 184 pp.
CODEN: PIXXD2
Patent
  INVENTOR (S) :
   PATENT ASSIGNEE(S):
SOURCE:
  DOCUMENT TYPE:
   ANGUAGE:
  PAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
US 1997-985337 19971204
WO 1998-US25383 19981130
 G f
 AB Title compds. [1; Y = (R4)rVAl[c(R1a)2]nA[c(R1a)2]n[W(R5)s]t[c(R1a)2]pX[C (R1c)2]q, R1a, R1b, R1c = H, (substituted) alkyl, aryl, heterocyclyl, cycloalkyl, alkenyl, alkynyl, cysno, NO2, N3, R8O, N(R8)2, etc.; R2 = H, (substituted) alkyl, alkenyl, aryl, heterocyclyl, COR6, CONR6R7, SO2R6, etc.; R3a, R3b = H, (substituted) alkyl, aryl, heterocyclyl, cycloalkyl, alkenyl, alkynyl, halp, perfluoroalkyl, R8O, etc.; R4 = H, (substituted) alkyl, aryl, heterocyclyl, cycloalkyl, alkynyl, alkynyl, perfluoroalkyl, F, Cl, Br, R8O, cysno, NO2, R8CO, N(R8)2, etc.; R5 = H, alkenyl, alkynyl,
            ANSWER 13 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
                                                                                                                                                      (Continued)
                        G11
              -C (0)·N
 203
                 - carbon chain <containing 1 or more C,
0 or more double bonds, 0 or more triple bonds>
(opt. substd.)
- 94
 G9
 G13
               -G23
 025
G17 = (1-2) CH2
G23 = cycloalkyl <containing 3-6 C> (opt. substd.)
Derivative:
Patent location:
Note:
Substitution is restricted
additional derivatization also claimed
or optical isomers
 REFERENCE COUNT:
                                                                             THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 PORMAT ,
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ANSWER 13 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) cycloalkyl, perfluoroalkyl, F. Cl. Br. R80, R802C. N3. N(R8)2, N02, R8CO, N3, etc., R6, R7 = H, (substituted) alkyl, cycloalkyl, heterocyclyl,
eryl,
perfluoroalkyl; R6R7 = atoms to form a ring; R8 = H, alkyl, PhCH2,
F3CCH2,
                  H2,
aryl; A1, A2 = bond, CH:CH, C.tplbond.C, CO, CONRS, O, NRS, S, SO, SO2,
etc.; J, K = N, NH, CH, CH2; V = H, heterocyclyl, aryl,
(heteroatom-interrupted) alkyl, alkenyl; M = heterocyclyl; X = bond, S,
SO, SO2, O, CO, NR10, NR10CO, etc.; R10 = H, R8CO, (aubatituted) alkyl,
cycloalkyl, heterocyclyl, etc.; 2 = (CH2)u; r = 0-5; n, p, q = 0-4; s
                  2; t = 0, 1; u = 1, 2; with provises), were prepd. as drugs (no data). Thus, 1,2,3,4-tetrahydroisequinoline-3(S)-carboxylic acid [2-(3-(4-cyanobensyl)-3H-imidazol-4-yl)-tehyllamide hydrochloride in MeOH was treated with Bt3N, PhCNO, and NaBN3CN Collowed by 16 h stirring to give 2-benzyl-1,2,3,4-tetrahydroisequinoline-3(S)-carboxylic acid [2-(3-(4-cyanobenzyl)-3H-imidazol-4-yl) athyllamide.
                           - 5-2 6-4
                           - 116-5 115-4
                           - 209-2 211-6
L6 ANSMER 14 OF 26
ACCESSION NUMBER:
TITLE:
Preparation of N-imidazolylethyl
benzylpiperazinecarboxamides and related compounds as
innumntor(s):
PATENT ASSIGNEE(s):
SOURCE:
CODEN: PIXXD2

DOCUMENT TYPE:

MARPAT COPYRIGHT 2006 ACS on STN

131:19012 MARPAT
Preparation of N-imidazolylethyl
benzylpiperazinecarboxamides and related compounds as
inhibitors of farnesyl-protein transferase.
Desolmen, S. Jane
Merck & Co., Inc., USA
PCT Int. Appl., 145 pp.
CODEN: PIXXD2

PATENT
DOCUMENT TYPE:
LANGUAGE:
                                                                                               Patent
                                                                                               English
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                            CC. NUM.

GFORMATION:

ENT NO. KIND DATE APPLICATION NO. DATE

9927933 A1 19990610 MO 1998-US235348 19981130

M: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, RU, ID, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, KD, RU, TJ, TM

RN: GH, GM, KE, LS, MM, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NI, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

5972966 A 19991026 US 1997-985124 19991130

5972966 A 19991026 US 1997-9512261 19981130

9915391 A1 19990610 CA 1999-15391 19981130

PN ES. FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,
                  PATENT NO.
                  WO 9927933
                  US 5972966
                   CA 2312361
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,
SI, LT, LV, FI, RO
PRIORITY APPLN. INFO.: US 1997-985124 19971204
                                                                                                                                                                   US 1997-985124 19971204
WO 1998-US25348 19981130
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L6 ANSMER 14 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) S, SO, SO2, O, CO, NR10, NR10CO, etc.; R10 - H, R8CO, (substituted) MSTR 1 = (1-2) CH2 = 5 / 45 / 111 -G5--G3--G22 G8-G13-G12 110 111 - 10-1 11-3 / 12-1 13-3 107 116 126-137 = NH (opt. substd.) = C(O) = Ph (opt. substd.) = alkylene <containing 1-16 C, unbranched-(opt. substd. by 1 or more G4) = 46-43 47-45 / 48-43 49-45 G8 G12 467 496 486-497 G18 -G21 025 197 198 114 115

L6 ANSMER 15 OF 26 MARPAT COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 129:216626 MARPAT
TITLE: Tricyclic compounds
[benzocycloheptapyridiny]tiperaxin
es and analogs] useful for inhibition of g-protein
function and for treatment of proliferative diseases
INVENTOR(S): Afonso, Adriano; Baldwin, John J.; Doll, Ronald J.;
Li, Ge; Mallams, Alan K.; Njoroge, P. George; Rane,
Dinamath P.; Reader, John C.; Rossman, Randall R.
SCHETTING COSP., USA; Pharmacopeia, Inc.
CODEN: USXAMM
DOCUMENT TYPE: PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

PATENT NO. KIND DATE

US 5801175 A 19980901 US 1996-73,3324 19960913
W0 9631478 A1 19961010 W0 1996-US4172 19960403
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, GZ, HI, IS, JP,
KG, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MX, NX, NZ, PL, RO,
RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, AM, AZ, BY, KG, KZ,
MD, RU
RW: KE, LS, MM, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CP, CG, CI, CM, GA, QN, ML,
MR, NE, SN, TD, TG
US 6314827 B1 20010410 US 1998-108124 19980627
PRIORITY APPLN. INFO.: US 1998-108124 US 1995-418323 WO 1996-US4172 US 1996-713324 19980623 19950407 19960403 19960913

GI

Novel compds. I are disclosed [wherein A, B = H, halo, Ci-6 alkyl; Z = N, CH; N = CH, CH2, O, S; X = C, CH, N; R1 = various sidechains, such as COCH(MH2) CH2SH, CH2CH(MH2) CH2SH, COCH(SH) CH2MH2, MeNNICH(CO2H) CH2CH2Ph, coch (ch2 CH2CH2Ph, ch2 H, CO2H or derivs., (un) substituted alk(en/yn)yl, etc.]. Also disclosed is a method of inhibiting Ras function, and therefore bitting

disclosed 18 a method 50 should be inhibiting the abnormal growth of cells, using I. For instance, amidation of 4-pyridineacetic acid N-oxide with the corresponding amine using DEC a HOBE gave title compound II, which had IC50 of 0.034 µM for inhibition

Page 15

L6 ANSWER 14 OF 26 MARPAT COPYRIGHT 2006 ACS on STN

or pharmaceutically acceptable salts Derivative: Patent location:

substitution is restricted additional interruptions of alkylene groups in G3 and G12 also claimed

Stereochemistry: or optical isomers

REPERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AWAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

PODMAT

ANSWER 15 OF 26 MARPAT COPYRIGHT 2006 ACS on STN farnesyl protein transferase in vitro. (Continued)

MSTR 1

- 37-5 30-19 37-10

- CH - 113 / 120 / 151

G15-G17-G27 G17-G27 G15-G30

= SO2 = alkylene (opt. substd. by G18) = 272

G44 - cyclopropyl Derivative: Patent location: Note: Note:

or dimers or pharmaceutically acceptable salts claim 1 additional ring formation specified substitution is restricted also incorporates broader disclosure

REFERENCE COUNT: THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L6 ANSWER 16 OF 26
ACCESSION NUMBER:
TITLE:
Preparation and formulation of thiazolidinedione
derivatives as phospholipase A2 inhibitors
SINVENTOR(S):
SOURCE:
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PANILY ACC. NUM. COUNT:
PATENT INCRMATION:
PATENT INCRMATION:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PA	TENT	NO.		KIND DATE				APPLICATION NO.						DATE			
								WO 1998-JP307									
MO																	
	W:													CN,			
														ıs,			
		KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU.	LV.	MD,	MG,	MK,	MN,	MW,	MX,	NO.
		NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG.	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	UA,
		UG,	US,	υz,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	TJ.	TM	
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	sz,	UG,	ZW,	AT,	BB.	CH,	DE,	DK,	ES,	PI,
		FR,	GB,	GR,	IE,	IT,	LU,	MC.	NL,	PT,	SE,	BF,	BJ,	CF,	CG.	CI.	CM,
		GA.	GN,	ML,	MR.	NE,	SN.	TD.	TG								
TW	5778	75		В		2004	0301	-	T	W 19	98-8	7101	064	1998	0126		
CA	5778 2277	947		Ā	A	1998	0806		C	A 19	98-2	2779	17	1998	0127		
CA	2277	947		C		2004	0921										
AU	9855	775		Ā	1	1998	0825		A	J 19	98-5	5775		1998	0127		
AU.	2277 9855 7192	10		В	2	2000	0504										
RD.	9807	133			_	3000	0125		B	9 19	98-7	132		1998	0127		
20	9767	4.9			1	2000	0202		E	D 19	98-9	0074	,	1998	0127		
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RO NO	2130	1/4		_	•	2003	1216		2.	U 19	09-0	0074	:	1000	0127		
V.1	2198 2555 9767 2210	140		-		2003	1912		2	,	90-9	0074	:	1000	0127		
P1	9/6/			-		2004	0331				20-2	0074	•	1000	2127		
63	6147	710			3	2004	0,01		- 64		yo - y			1330			
US	6147 9903 3138	100		•		2000	1114			5 19	99-3	5500	9	1999	0/22		
NO	9903	706		_		1999	0930		N	J 19	99-3	/06		1999	0/29		
NO	3138	81		В	1	2002	1216										
M.A.	990/	Det				2000	0225		m.	v 13	yy~ /	001		1333	0/29		
PRIORIT	Y APP	LN.	INFO	• •										1997			
									W	J 19	98-J	P3 07		1998	0127		
21																	

ANSWER 16 OF 26 MARPAT COPYRIGHT 2006 ACS on STN = 106 (Continued)

186 187

G38 = 142-7 141-96 142-9

Derivative: Patent location: Note:

or pharmacologically acceptable salts or hydrates claim 1

substitution is restricted

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L6 ANSWER 16 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

The title compds., e.g. I [R1 represents optionally substituted aralkyl, etc.; Z represents optionally alkylated nitrogen, etc.; X1 represents CH2NHCO, etc.; X2 represents phenylene, etc.; X3 represents a single

etc.; Y2 represents optionally substituted aryl, etc.; and B represents oxygen, etc.], are prepared In an in vitro test for cPLA2 inhibition,

title compound II showed IC50 of 0.17 $\mu\text{M}.$

MATE 1

= 24-8 26-6

296-C(0)-G7

= alkylene <containing 1-3 C, unbranched>
= NH
= 0

L6 ANSWER 17 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 127:149142 MARPAT
TITLE: Preparation of 4-(aminothiazolyl)acetanilides and analogs as antiherpes agents
BOATENT ASSIGNEE(S): Bookringer Ingelheim Pharmaceuticals, Inc., USA;
BOOKRINGER Ingelheim (Canade) Ltd.
PCT Int. Appl., 336 pp.
CODEN: PIXXD2
DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: English 2 PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA1	ENT I	NO.		KI	ΝD	DATE			AI					DATE			
	9724																
	W:	AL,	AM,	AT,	AU,	λZ,	BA,	BB,	BG,	BR,	BY,	CH,	CN,	CU,	CZ,	DE,	DK,
		EE,	ES,	FI,	GΒ,	GE,	HU,	IL,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,
		LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,
		RU,	SD,	SE,	SG,	SI,	SK,	TJ,	TM,	TR,	TT,	UΑ,	UG,	υz,	VN,	AM,	AZ,
		BY,	KG,	KZ,	MD,	RU,	TJ,	TM									
	RW:	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	PI,	FR,	GB,	GR,
		IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	BJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	ML,
		MR,	NE,	SN,	TD,	TG											
AU	9716	828		A	1	1997	0728		Αl	J 19	97-1	6828		1996	1204		
	8716								E	19	96-9	4556	7	1996	1204		
EP	8716	19		В	1	2002	1106										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
						FI,											
CN	1207	094		A		1999	0203		C	1 19	96-1	9944	3	1996	1204		
BR	9612	435		A		1999	0713		BF	19	96-1	2435		1996	1204		
JP	2000	5027	02	T	2	2000	0307		J	19	97-5	2432	5	1996	1204		
NZ	3311	04		λ		2000	0327		N2	19	96-3	3110	4	1996	1204		
AT	2272	79		E		2002	1115		A7	19	96-9	4556	7	1996	1204		
ES	2186	811		T:	3	2003	0516		ES	19	96-9	4556	7	1996	1204		
CA	2192	433		A	A.	1997	0630		C	19	96-2	1924	33	1996	1209		
ZA	2192 9610	850		A		1997	0630		2.3	19	96-1	0850		1996	1223		
	9802																
US	6458	959		B	1	2002	1001		US	20	00-6	8568	6	2000	1010		
PRIORITY	APP	LN.	INFO	. :					US	19	95-9	433P		1995	1229		
									US	19	96-2	3209	P	1996	0802		
									US	19	96-7	5920	1	1996	1204		
									WC	19	96-U	S191	31	1996	1204		
									US	19	99-4	5685	7	1999	1208		
AB 4-F	RC6H4	R1 [I; R	- (1	un) s	ubst	itut	ed 4	-thie	zol	yl;	R1 -	NR2	COZI	CHR3	NR4R	5,

NR2aCOZ2NR3aR4a, etc.; R2,R2a = H or alkyl; R3 = H, alkyl,

(un)substituted
phenyl(alkyl); R3a = H, (cyano)alkyl, CH2CH2OH, phenyl(alkyl), etc.; R4 =
H, alkyl, phenylalkyl, heterocyclyl, etc.; R4a = alkyl, phenyl(alkyl),
etc.; R3Re = atoms to form a ring; NRJaR4a = heterocyclyl; R5 = alkyl,
phenyl(alkyl), heterocyclyl, etc.; Z1 = bond or CH2; Z2 = bond or CO]

prepared for treating herpes infections by inhibiting the herpes helicase-primase enzyme complex. Thus, Me3CO2CNHCH2CO2H was N-alkylated by PhCH3P and the product amidated by 4-(H2N)CSH4COWe to give, efter cyclocondensation with H2NCSNH2 and deprotection, I (R = $2-\min(A-A-t)$). Data for biol. activity of I were given.

METR 1

ANSWER 17 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

= NH = 323-27 324-30

35(0);CH2

= (2-3) CH2 = CH2 = 75

--G17 025

G17 = Ph G8 +G11= 55-30 56-31

g14-g15

Derivative: Patent location:

or therapeutically acceptable acid addition salts claim 1

ANSWER 18 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) The title compds. I; A, B = H, halogen, alkyl; Rl = COCN (NH2) CH2SH, CH2CH (NH2) CH2M12, CH2CH (SH) CH2M2, etc.; W = CH, CH2, O, S; X = C, CH, N; the dotted lines represent optional double bonds and

present W = CH and X = C), useful for inhibiting the Ras function and therefore inhibiting the abnormal growth of cells (e.g., cancer) via the inhibition of farnesyl protein transferase, are prepared and I-containing formulations presented. Thus, pyridine derivative II was prepared and demonstrated a tumor cell ICSO of 12.5 µM.

MSTR 1

- 37-5 30-19 37-10

= CH = 113 / 120 / 151

G15-G17-G27 1207-G27 1515-G30

= 502 = alkylene (opt. substd. by G18) = 272

G44 = cyclopropyl Derivative: Patent location: Note: Note:

or dimers or pharmaceutically acceptable salts claim 1 additional ring formation specified substitution is restricted

L6 ANSMER 18 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 126:7997 MARPAT
TITLE: Preparation of heterocyclic tricyclic compounds useful

treatment

INVENTOR (S) :

of cell proliferative diseases
Afonso, Adriano; Baldwin, John J.; Doll, Ronald J.;
Li, Ge; Kallams, Alan K.; Njoroge, F. George; Rane,
Dinenath F.; Reader, John C.; Rossman, Randail R.
Schering Corporation, USA; Pharmacopeia, Inc.
PCT Int. Appl., 135 pp.
CODEN: PIXXD2
Patent
English
2 PATENT ASSIGNEE(S): SOURCE:

for inhibition of g-protein function and for

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		PENT					DATE											
		9631																
		w :					BB,											
							LR,											
					SI,	sĸ,	TJ,	TM,	TR,	TT,	UΑ,	υz,	VN,	AM,	AZ,	BY,	KG,	ΚZ,
			MD,															
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							NL,		SE,	BP,	BJ,	CF,	œ,	CI,	CM,	GΑ,	GN,	ML,
			MR,	NE,	SN,	TD,	TG											
		1177																
	CA	2217	499		N.	A	1996	1010		O	19	96-2	2174	99	1996	0403		
	CA	2217	499		c		2004	0330										
	AU	9655	279		A	1	1996	1023		Al	J 19	96-5	5279		1996	0403		
		7199																
	EP	8191	21		A	1	1998	0121		E	19	96-9	1246	9	1996	0403		
							DK.											PT.
			IE.	LT.	LV.	PI												
	BR	9604	787		A		1998	0707		B	19	96-4	787		1996	0403		
	CN	1187	189		A		1998	0708		CI	1 19	96-1	9457	1	1996	0403		
		1051																
	JP	3038	017		B:	2	2000	0508										
	NZ	3066	65		А		2000	0128		N2	. 19	96-3	0666	5	1996	0403		
		4629					2001											
	us	5801	175		A		1998	0901		US	19	96-7	1332	4	1996	0913		
	NO	5801 9704	610		A		1997	1208		NO	19	97-4	610		1997	1006		
	NO	3140	82		В	1	2003	0127										
		6214								119	: 19	98-1	0812	4	1998	0623		
PRIC		YAPP				-									1995			
															1996			
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CT										٠.	• • •			-				

STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

L6 ANSWER 19 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
TITLE:

122:187250 MARPAT
Heteroary1 derivatives of monocyclic beta-lactam antibiotics
INVENTOR(S):

Koster, William H.; Sundeen, Joseph E.; Straub, Henner; Ermann, Peter: Treuner, Uwe D.; Amsberry, Kent; Pakes, Michael; Varie, Saileeh A.

PATENT ASSIGNEE(S):
SOURCE:

U.S., 22 pp. Cont. in-part of U.S. Ser. No. 608,945 abandoned.
CODEN: USXXAM
Patent
DOCUMENT TYPE:
LANGUAGE:
English
PAHILY ACC. NUM. COUNT:
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE ,	APPLICATION NO.	DATE
US 5290929	Α	19940301	US 1992-941600	19920908
ZA 9108014	Α	19920729	ZA 1991-8014	19911007
CA 2053359	AA	19920506	CA 1991-2053359	19911011
CA 2053359	C	20040113		
IN 176680	A	19960824	IN 1991-DE995	19911015
IL 99829	A1	19970110	IL 1991-99829	19911023
IL 118368	A1	19970930	IL 1996-118368	19911023
	λl	19920507	AU 1991-86941	19911101
AU 648835	B2	19940505		
FI 9105194	Α	19920506	FI 1991-5194	19911104
NO 9104320	A	19920506	NO 1991-4320	19911104
HU 59921	A2	19920728	HU 1991-3462	19911104
HU 211402	В	19951128		
KR 210631	B1	19990715	KR 1991-19523	19911104
CN 1061414	A	19920527	CN 1991-108478	19911105
CN 1031825	В	19960522		
JP 04283579	A2	19921008	JP 1991-288600	19911105
JP 3157565	B2	20010416		
	B1	19950831	PL 1991-292287	19911105
AT 178604	E	19990415	AT 1991-118838	19911105
ES 2129397	T3	19990616	ES 1991-118838	19911105
JP 2000239246	A2	20000905	JP 2000-75432	19911105
JP 3299734	B2	20020708		
SK 282124	B6	20011106	SK 1991-3345	19911105
CZ 289671	B6	20020313	CZ 1991-3345	
US 5420277	A	19950530	US 1993-157801	19931129
AU 9468892	A1	19941006	AU 1994-68892	19940803
AU 659780	B2	19950525		
US 5705645	λ	19980106	US 1995-399793	19950307
CN 1113228	λ	19951213	CN 1995-104831	19950428
	В	20010613		
CN 1251836		20000503	CN 1999-111789	19990810
IORITY APPLN. INPO	. :		US 1990-608945	19901105
			IL 1991-99829	19911023
			JP 1991-288600	19911105
			US 1992-941600	19920908
			US 1993-157801	19931129

αī

ANSWER 19 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

Antibacterial activity against both gram-pos. and gram-neg. organisms is exhibited (no data) by the prepared novel compds. I [R1, R2 = H, alk(en/yn)yl, (un)substituted Ph or heterocyclyl, CO2H, SH or OH or derivs., etc.; M = H, tetraslkylammonium, Na, K, other acceptable cation K = (CH2)n where n = 0.4, CR3R4 where R3 and R4 = H, Me, Et, or where

**atoms to form a 3- through 7-membered cycloalkyl ring]. For example, oximation of (2R-cie) -3-[[[2-(formylamino) -4-thiazolyl]oxoacetyl]amino] -2-methyl-4-oxo1-azetidinesulfonic acid Bu4N* salt (preparation given) with 3-[(aminooxy)methyl]-6,7-dihydroxy-2-quinoxalinecarboxylic acid-HCl.in

3-[(aminooxy)methyl]-6,7-dihydroxy-2-quinoxalinecarboxylic acid-HCl.in
aqueous
solution at pH 2.0, and deformylation of the product by HCl in aqueous
THP at pH
0.8-1.0 over 20 h, gave I (Rl = Me, R2 = M = H, X = CH2). Prepns. of
approx. 7 I and numerous intermediates are described.

- 19

L6 ANSWER 20 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
122:55819 MARPAT
Heterocyclic hydrazide derivatives of monocyclic
B-lactam antibiotics
Ermann, Peter H.; Straub, Henner
E. R. Squibb and Sons, Inc., USA
U.S., 20 pp. Cont. of U.S. Ser. No. 410,217,
abandoned.
CODE:

CODEN: USXXAM Patent

DOCUMENT TYPE: LANGUAGE:

English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19940607 US 1990-620170 CA 1990-2024282 JP 1990-254057 US 1989-410217 US 5318963 CA 2024282 19901130 19910322 19900830 JP 03120276 19910522 PRIORITY APPLN. INFO.:

Antibacterial (no data) compds. (I) and pharmaceutically acceptable salts thereof, wherein: A is a bond or alkylene; Q completes a 5- or 6-membered saturated or unsatd. (including aromatic) heterocyclic ring having one

wo heteroatoms in the ring selected from nitrogen, NR5 .tplbond.N+R6, sulfur or oxygen; X is attached to an available carbon atom in the heterocyclic ring and is hydrogen, amino, hydroxyl, halogen, carboxxmide, nitrile, or carboxyl, except that Y is not carboxyl when the bicyclic ring completed by Q is 2-quinolyl, 3-quinolyl, or quinoxalyl; and the remaining symbols are as defined in the specification.

MSTR 1

L6 ANSWER 19 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

- 79

2630-C (0)-G15

= Ph (opt. substd.)

- G31 - (0-2) CH2 - G33 - (0-4) CH2 location:

claim 1

ANSWER 20 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

613-G16

G13 - 67-42 68-62

67 68 (O)

- (0-3) CH2

G17 = Ph (opt. substd.)
Derivative:
Patent location:
Note:

and pharmaceutically acceptable salts claim 1 substitution is restricted

L6 ANSMER 21 OF 26 MARPAT COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 19:210716 MARPAT
TITLE: Prodrugs activated by targeted catalytic protsins
Kenten, John Henry, Yon Borstel, Reid; Casadei, Jan
M.; Kamireddy, Balreddy; Martin, Mark T.; Massey,
Richard J.; Napper, Andrew D.; Simpson, David M.;

PATENT ASSIGNEE(S): Smith, Rodger G.; et al.
1gen, Inc., USA
POT Int. Appl., 371 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 19
PATENT INFORMATION:

PATENT NO. CN 1070409 A 1993031 CN 1992-110882 19920805
CN 1044911 B 19990901
ZA 9205882 A 19940106 ZA 1992-5882 19920805
CN 1217335 A 1994026 CA 1996-123479 19961230
US 2002045231 A 120020418 US 2001-517502 20010326
US 2003096765 A 1 20030522 US 2002-205115 20020725
US 2005123531 A 1 20050609 US 2001-699966 20031103
PRIORITY APPLN. INFO: US 1991-740501 19910805
US 1991-773042 19911010
US 1998-190271 1991000
US 1992-19851 19920731
US 1998-190271 19880504
US 1991-761868 19910903
US 1991-761868 19910903
US 1993-52480 19930423
US 1993-24480 19941018
US 1993-24480 19941018
US 1993-241876 19990202
US 2002-205115 20020725
AB Disclosed are prodrugs activated by catalytic proteins, e.g. enzymes and catalytic antibodies, and haptens of the prodrugs to elicit catalytic antibodies and haptens of the prodrugs are useful as cytotoxic
Chemotherapeutic agents. Methods are also provided for converting a variety of cancer chemotherapy drugs to substantially nontoxic prodrugs which are stable to endogenous enzymes but which can be activated in or near tumore by prior administration of tumor-selective agents, e.g. tumor-associated enzymes or antibodies conjugated or connected to a protein
catalyst, which convert the prodrug to active cytotoxic agents. Prodrug

protein

catalyst, which convert the prodrug to active cytotoxic agents. Prodrug
5'-0-(2,6-dimethoxybenzoyl)-5-fluorouridine (I) was prepared by reaction

2,6-dimethoxybenzoyl chloride and 2',3'-0-isopropylidene-5-fluorouridine in pyridine followed by acid hydrolysis using 50% HCO2H at 65°.

ANSWER 21 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) Patent location: claim 52

ANSWER 21 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)
The toxicity of I in mice, as measured by effect on segmented neutrophile counts, was substantially 550 times less toxic than 5-fluorouridine. The prepn. of the transition state analog, the phosphonats eater of 5'-O-(2,6-dimethoxybenzoyl)-5-fluorouridine, is also described.

MSTE 24A

G1 carbon chain <0 or more double bonds, no triple bonds> (opt. substd. by G25)

= 503H = G9 = (0-4) CH2 = 124

450-G6

G20

L6 ANSWER 22 OF 26 MARPAT COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
CODEN: EPXXDM

DOCUMENT TYPE:

MARPAT COPYRIGHT 2006 ACS on STN

119:49139 MARPAT
Preparation of heteroarylsulfomonolactams as antibiotics
streub, Henner; Drossard, Jakob Matthias
S. R. Squibb and Sons, Inc., USA
EUr. Pat. Appl., 29 pp.
CODEN: EPXXDM
Patent

DOCUMENT TYPE: LANGUAGE: Patent English

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PA	TENT	NO.		KIND	DATE		AP	PLI CAT	ION NO.	DATE		
•	EP	5319	76		A1	19930317		EP	1992-	115431	19920909		
		R:	AT.	BE.	CH. DE.	DK. ES.	PR.	GB.	GR. IE	. IT. LI	, LU, MC,	NL.	PT.
SE													
	US	5250	691		A	19931005		US	1991-	756939	19910909		
	CA	2077	493		AA	19930310		CA	1992-	2077493	19920903		
	JP	0521	3946		A2	19930824		JP	1992-	239419	19920908		
PR	ORIT	Y APE	LN.	INFO	. :			US	1991-	756939	19910909		
GI													

Title compds. I (R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, heterocyclyl, (substituted) Ph, etc., or 1 of R1, R2 = H, the other N3, halomethyl, alkoxycarbonyl, phenylethyl, phenylethenyl, phenylethynyl, CO2H, axidomethyl, aminomethyl, hydroxymethyl, carboxymethyl, alkoxycarbonylmethyl, alkanoyleminomethyl, stc., X = (CH2)n, CR3R4, n = 1-4; R3, R4 = H, Me, Et; R3R4C = C3-7 cycloalkyl; Y = H, amino, OH, halo, carboxamido, carboxyl; Q = (oxo-substituted) 6-membered aromatic or

nonarom.

ring except quinoxalins; M = H, pharmacsutically acceptable cation) were prepared as antibiotics (no data). Thus,

3-[(aminooxy)methyl]-6,7-dihydroxy4-oxo-1(4H)-quinolineacetic acid (preparation from 1,2-dihydroxybenzene

in many
steps given) and (2R-cis)-3-[[(2-amino-4-thiazolyl) oxoscetyl]amino]-2methyl-4-oxo-1-axetidinesulfonic acid (preparation from
(2R-cis)-3-amino-2methyl-4-oxo-1-axetidinesulfonic acid and 2-formylaminothiazol-4ylglyoxylic acid given) were coupled in DMP brought to pH 2 with 1N HCl
over 48 h to give (2R-[2a, 30(2)])-3-[[[[1-(2-amino-4thiazolyl)-2-[(2-methyl-4-oxo-1-sulfo-3-axetidinyl)amino]-2-

L6 ANSWER 22 OP 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued) oxoethylidene|amino]oxy|methyl]-6,7-dihydroxy-4-oxo-1(4H)-quinoline acetic acid, disodium salt.

MATE 1C

Gl1 = Ph (opt. substd. by 1 or more Gl2)
Derivative: or salts
Patent location: claim 1

ANSWER 23 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

Title compds. [I; M = H, tetraalkylammonium, Na, K, etc.; R1, R2 = H, (cyclo)alkyl, alkenyl, heterocyclyl, (substituted) Ph, etc.; R5 = H; X = NOZR; R = quinoxalinyl group Q; Z = (CH2)0-4, CR3R4; R3, R4 = H, Me, Et; R3R4 = (CH2)2-6) were prepared as antibacterial agents (no data). Thus, MECOCOCOZOME3 (preparation given) was cyclocondensed with diaminoz 2:

5,6-diamino-2,2-dimethyl-1,3-benzodioxole and the brominated product condensed with (Me3CO2C)2NOH (preparation given) to give, after deprotection, QCH2ONH2

CMe3) which was condensed with I (M = NBu4, R1 = Me, R2 = H, R5 = CHO, X

O) to give, after deprotection, I (M = R2 = R5 = H, R1 = Me, X = NOCH2Q in

which M - H).

L6 ANSWER 23 OF 26 MARPAT COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

TITLE: Preparation of 3-[2-aminothiazoly]-2[[quinoxalinylalkoxy)imino]acetamido]-4-oxo-1azetidinesulfonates as antibacterial agents
Koster, William H., Sundeen, Joseph E., Straub,
Henner; Ermann, Peter Hans; Treuner, Uwe D.

E. R. Squibb and Sons, Inc., USA

BUT. Pat. Appl., 50 pp.

COOMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INPORMATION:

PATENT TOPORMATION:

FAMILY ACC. NUM. COUNT:

	DA.	PENT NO		KIND	DATE	A D	DI.ICATION NO	DATE	
							PLICATION NO.		
		484881		A2	19920513	RP	1991-118838		
		484881		A3	19921014				
		484881		B1	19990407				
						GB.	GR. IT. LI. L	U. NL. SE	
		9108014		A			1991-8014		
		2053359					1991-2053359		
	CA	2053359		c	20040113				
	IN	176680		Ā	19960824	IN	1991-DE995 1991-99829 1996-118368	19911015	
	11	99829		A1	19970110	I L	1991-99829	19911023	
	1L	118368		Al	19970930	IL	1996-118368	19911023	
		9186941			19920507	AU	1991-86941	19911101	
		648835							
	PI	9105194		A	19920506	PI	1991-5194	19911104	
						NO	1991-4320	19911104	
	HU	59921		A2	19920728	HU	1991-4320 1991-3462	19911104	
	HU	211402		B	19951128				
	KR	210631		B1	19990715	KR	1991-19523	19911104	
	CN	1061414		A	19920527	CN	1991-108478	19911105	
					19960522				
	JP	04283579		A2	19921008	JP	1991-288600	19911105	
	JP	3157565		B2	20010416				
		167312			19950831	PL	1991-292287	19911105	
	AT	178604		E	19990415	AT	1991-118838	19911105	
	ES	2129397		T3	19990616	ES	1991-118838 1991-118838	19911105	
	JP	20002392	46	A2	20000905	JP	2000-75432	19911105	
	JP	3299734		B2	20020708				
	sĸ	282124		B6	20011106	5K	1991-3345	19911105	
	cz	289671		B6	20020313	CZ	1991-3345	19911105	
	ΑU	9468892		A1	19941006	AU	1994-68892	19940803	
	ΑU	659780		B2	19950525				
		1113228		A B	19951213	CN	1995-104831	19950428	
	CN	1067053		В	20010613				
	CN	1251836		A	20000503	CN	1999-111789	19990810	
RIO	RIT	APPLN.	INFO.			US	1990-608945	19901105	
						IL	1991-99829	19911023	
						JP	1991-288600	19911105	

L6 ANSWER 23 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

6115-G18

- 67-21 68-62

G16-C(0)

= (1-3) CH2 = 77

G19 = Ph (opt. substd.)
G21 = G22
G22 = (0-4) CH2
G24 = OH
Patent location:

claim 1

L6 ANSWER 24 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 116:59075 MARPAT
Monobactam hydrazides containing catechol sulfonic acid groups Sundeen, Joseph E.; Zahler, Robert; Jendrzejewski, INVENTOR (S) SCEERN E. R. Squibb and Sons, Inc., USA
U.S., 15 pp.
CODEN: USXXAM PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE | WRIGHT NO. | WRI

[(2-methyl-4-oxo-1-sulfo-3-azetidinyl)amino]-2-oxoethylidene|amino]oxyl-2-methylpropanoic acid in DMP at 0° was treated with hydroxybenzotriazole, BuJN, dimethylaminopyridine, and DCC; after 1 h, 3,4-dihydroxy-5-sulfobenzoic acid hydrazide (preparation given) and BuJN in DMP were added and the mixture was stirred at 20° for 15 h to give, after treatment with C4F9SO3K, title compd II.

MSTR 1A

L6 ANSWER 25 OF 26 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 115:158831 MARPAT
TITLE: Preparation of aztreonam 2(quinolinylcarbonyl)hydrazides and analogs as antibiotics

Ermann, Peter Hans; Straub, Henner E. R. Squibb and Sons, Inc., USA Eur. Pat. Appl., 40 pp. CODEN: EPXXDW Patent INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: Patent English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE EP 420069 A2 19910403 EP 1990-118218 19900931
EP 420069 A3 19910605
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LJ, NL, SE
CA 2024282 AA 19910322 CA 1990-2024282 19900830
JP 03120276 A2 19910322 JP 1990-254057 19900931
PRIORITY APPLN. INPC.: US 1989-410217 19890921
GI

The title compds. [I; M = H, cation; R = NHNHCOARS; A = bond, alkylene; R1,R2 = H, (cyclo)alkyl, alkenyl, (un)substituted Ph, etc., or 1 of R1,

H and the other = N3, halomethyl, alkoxycarbonyl, styryl, CO2H, etc.;
 R3, R4 = H, alkyl; CR3R4 = cycloalkylidene; R5 = heterocyclic group O1; Q
 atoms to complete a 5- or 6-membered (aromatic) heterocyclic ring; Y =

NH2, OH, CO2H, halo, etc.] were prepared as antibiotics (no data). Thus, 6,7-dihydroxy-3-quinolinecarboxylic acid hydrazide (preparation given)

condensed with aztreonam to give I (M = K, R \Rightarrow quinolinylcarbonylhydrazo group Q2, R1 \Rightarrow Me, R2 \Rightarrow H, R3 \Rightarrow R4 \Rightarrow Me).

MSTR 1A

-C (O)-NH bond503H43 -G10 HÇ-G10 5213-015 - 60-43 61-53 H2C-C(0) G15 8916-G17 G16 = NH G17 = Ph (opt. substd.) Derivative: Patent location:

and pharmaceutically acceptable salts

ANSWER 25 OF 26 MARPAT COPYRIGHT 2006 ACS on STN

(Continued)

L6 ANSWER 26 OF 26
ACCESSION NUMBER:
113:40326 MARPAT
TITLE:
Heteroarcy:hydrazide derivatives of monocyclic
B-lactam antibiotics
SUNCE:
SOURCE:
CDCUMENT TYPE:
LANGUAGE:
PALLY
PARLY ACC. NUM. COUNT:
1
MARPAT
103:40326 MARPAT
SURGRATIC
B-Carrent MARPAT
103:40326 AZ 19891123 EP 1989-107843 19890429
AJ 19910417
CH, DE, ES, FR, GB, GR, IT, LL, NL, ES
A 19900121 US 1988-194355 19880516
A 19900131 ZA 1989-1483 19890510
A 19891116 AU 1989-2488 19890512
A1 19891116 AU 1989-24847 19890516
BZ 19920102 JP 1989-122705
A 1 19910806 US 1989-44*

A 19911305 AU

BZ 19930826 DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. EP 342423 EP 342423 EP 342423 R: AT, BE, US 4904775 2A 8903483 DK 8902348 AU 89324847 AU 618598 JP 02017189 US 5037983 AU 9185768 AU 640531 AU 9185768 AU 640531 PRIORITY APPLN. INFO.:

ANSWER 26 OF 26 MARPAT COPYRIGHT 2006 ACS on STN G1 HG-**—**G3 G3 H2C-536-5 (O)-G9 610-G11 G10 * NH
G11 * Ph (opt. substd.)
Patent location:

ANSWER 26 OF 26 MARPAT COPYRIGHT 2006 ACS on STN (Continued)

The title compds. (I: R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, etc.; R3, R4 = H, alkyl, R3R4 = alkylene; R5, R6 = H, alkyl; or R5R6 = C2-5 alkylene; R7 = H, F, Cl, Br; X, Y = M, CH), useful as bactericides against gram-pos. and gram-neg. organisms, are prepared A solution of man

against gram-pos. and gram-neg. Organisms, who possessed as anhydride II in DNP was treated with a solution of 1.42 g hydraxide III (preparation given) in DNP at 25° and enough EI3N to raise pH to 7.5 to give 3.05 mg (25,2°c,3°p)-(21-1 (R1 = R3 = R4 = Me, R2 = R5 = R6 = R7 = H, X = N, Y = CH), and 135 mg isomer I (X = CH, Y = N). Also prepared were 7 addnl. I. I are effective in combating bacterial infection
in mammals at 14-100 mg/kg-day.

MSTR 1A

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10/823,372
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=> d his

(FILE 'HOME' ENTERED AT 10:48:46 ON 30 MAR 2006)

FILE 'REGISTRY' ENTERED AT 10:48:50 ON 30 MAR 2006

L1 STRUCTURE UPLOADED

L2 7 S L1 SAM

L3 106 S L1 FULL

FILE 'CA' ENTERED AT 10:49:14 ON 30 MAR 2006

L4 3 S L3

FILE 'MARPAT' ENTERED AT 10:49:32 ON 30 MAR 2006

L5 28 S L1 FULL

L6 26 S L5/COM

=>

---Logging off of STN---

Executing the logoff script...

=> LOG Y

STN INTERNATIONAL LOGOFF AT 10:54:07 ON 30 MAR 2006